

Interview Summary

Application No.

09/280,518

Applicant(s)

FUJIWARA, KENSUKE

Examiner

David Yockey

Art Unit

2861

#11

All participants (applicant, applicant's representative, PTO personnel):

(1) Michael A. Makuch, Esq. (Applicant's Rep.). (3) _____.

(2) David Yockey (Examiner). (4) _____.

Date of Interview: 6-19-01

Type: a) ☐ Telephonic b) ☐ Video Conference
c) ☒ Personal [copy given to: 1) ☐ applicant 2) ☒ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.

If Yes, brief description:

Claim(s) discussed: 1 and 2.

Identification of prior art discussed: Admitted Prior Art (Application Figs 5 and 6) and Arevalo (US 6,104,986).

Agreement with respect to the claims: f) ☐ was reached. g) ☒ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Discussed Inventor's explanation of what is considered to be taught by the original disclosure. Inventor's position is that the same laser intensities are used in each repetition of steps S4-S7 (shown in Fig. 1). Support for this position is asserted to be found at page 12, lines 5-17 of the specification. Also discussed proposed changes to claims 1 and 2 in this regard. The Examiner indicated that further consideration would be required.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

i) ☐ It is not necessary for applicant to provide a separate record of the substance of the interview(if box is checked).

Unless the paragraph above has been checked, THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.



DAVID F. YOCKEY
PRIMARY EXAMINER

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

PROPOSED AMENDED CLAIMS

1. (Three Times Amended) A laser intensity adjusting method of adjusting a maximum intensity of a laser exposure mechanism for irradiating laser light to a surface of a photoreceptor to which a uniform potential is being given by a corona discharger, the method comprising:

a first potential detecting step including the steps of (i) [exposing photoreceptor surface portions to laser lights of] obtaining a first plurality of laser [intensities, obtained] intensity values by dividing a predetermined laser intensity value [into] by a first plurality of selected values such that said intensity values of said first plurality thereof increase from an initial value to said predetermined intensity value according to a first [intervals, and] interval to provide a first range of intensity values, (ii) respectively exposing a surface portion of said photoreceptor surface with a laser light having an intensity corresponding to each of said first plurality of intensity values to provide exposed photoreceptor surface portions, and (iii) detecting [potentials] the potential of [the] each of said exposed photoreceptor surface portions [exposed to the laser lights of the plurality of laser intensities, wherein] whereby each of said potentials corresponds to one

of said [plurality of] laser intensities corresponding to said first plurality of intensity values;

a second potential detecting step including the steps of (i) obtaining a second plurality of laser intensity values by dividing [the] said predetermined laser intensity value [into a plurality of second intervals so as to set a plurality of laser intensities, wherein] by a second plurality of selected values such that said intensity values of said second plurality thereof increase from an initial value to a predetermined intensity value according to a second interval to provide a second range of intensity values, said second [plurality of intervals are] interval being smaller than said first [plurality of intervals] interval and said second range being smaller than said first range, [and] said [plurality of laser intensities are in a range including a] laser intensity values of said second plurality being selected to be close to a laser intensity value corresponding to [a] one selected potential selected from the potentials detected [at the] during said first potential detecting step, [and wherein the] said one selected potential [is] being closest[, out of the potentials detected at the first potential detecting step,] to a predetermined set potential, (ii) respectively exposing a surface portion of said photoreceptor surface with laser light having an intensity corresponding to each of said second plurality of intensity values to provide exposed photoreceptor surface portions [to laser lights of the plurality of laser intensities thus set], and (iii) detecting [potentials] the potential of [the] each of said

exposed photoreceptor surface portions [exposed to the laser lights of the plurality of laser intensities]; and

a repeating step of (i) repeating [the] steps (ii) and (iii) of said second potential detecting step until there is obtained a potential equal to or substantially equal to [the] said predetermined set potential, and (ii) setting, as [the] said maximum intensity, [the] a laser intensity corresponding to [the] said potential thus obtained[,

wherein the plurality of laser intensities in the first potential detecting step are set within a range that is narrower than a full range from zero to the predetermined laser intensity value, and wherein an optimal maximum intensity lies within said full range].

2. (Three Times Amended) A laser intensity adjusting method of adjusting a maximum intensity of a laser exposure mechanism for irradiating laser light to a surface of a photoreceptor to which a uniform potential is being given by a corona discharger, the method comprising:

a first potential detecting step including the steps of (i) [exposing photoreceptor surface portions to laser lights of a] obtaining a first plurality of laser [intensities set at first intervals, and] intensity values that increase from an initial value to a predetermined value according to a first interval to provide a first range of intensity values, (ii) exposing a surface portion of said photoreceptor surface with laser light having an

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intensity corresponding to each of said first plurality of intensity values to provide exposed photoreceptor surface portions, and (iii) detecting [potentials] the potential of [the] each of said exposed photoreceptor surface portions [exposed to the laser lights of the plurality of laser intensities];

a second potential detecting step including the steps of (i) obtaining a second plurality of laser intensity values that increase from an initial value to a predetermined value according to a second interval to provide a second range of intensity values, said second interval being smaller than said first interval and said second range being smaller than said first range, (ii) respectively exposing a surface portion of said photoreceptor surface with laser light having an intensity corresponding to each of said second plurality of intensity values to provide exposed photoreceptor surface portions [to laser lights of a plurality of laser intensities which are set, at second intervals smaller than the first intervals and are in a range including a laser intensity with which there has been detected, at the first potential detecting step, a potential which is closest, out of the potentials detected at the first potential detecting step, to a predetermined set potential], and [(ii)] (iii) detecting [potentials of] the potential of each of said exposed photoreceptor surface portions [exposed to the laser lights of the plurality of laser intensities]; and

a step of setting, as [the] a maximum intensity of the laser exposure mechanism, a laser intensity with which there has been detected, at [the] said first or said second

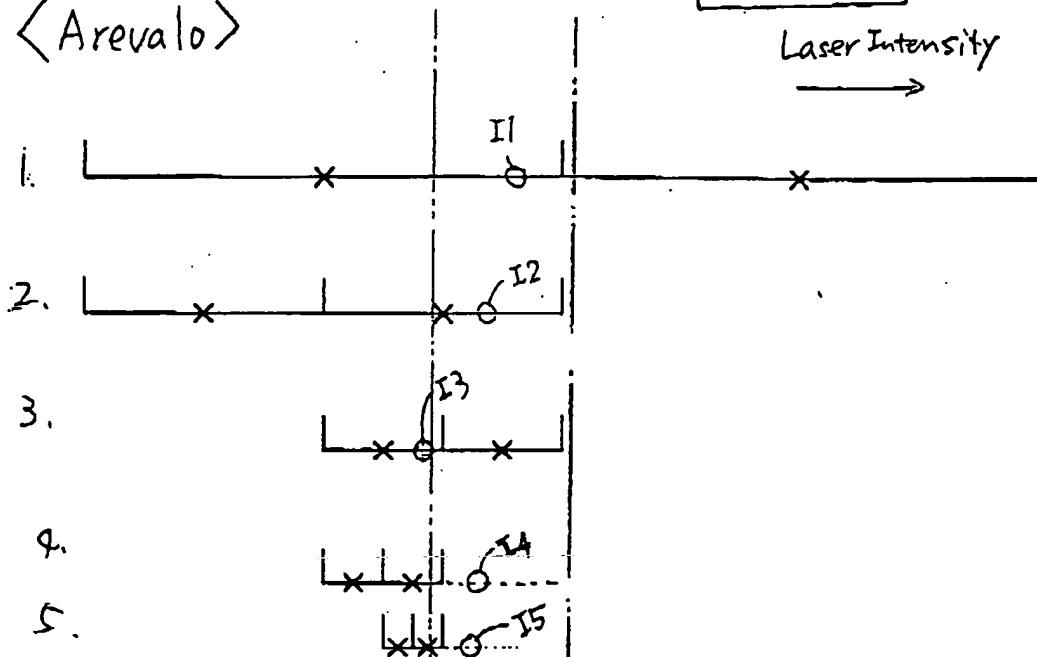
potential detecting step, a potential equal to or substantially equal to [the] a
predetermined set potential,

wherein [the plurality of laser intensities in the first potential detecting step are set
within a range that is narrower than a full range from zero to a predetermined laser
intensity value, and wherein an optimal maximum intensity lies within said full range]
said steps (ii) and (iii) of said second potential detecting step are repeated until there is
obtained a potential equal to or substantially equal to [the] said predetermined set
potential, and said laser intensities corresponding to said second plurality of intensity
values are selected to be close to a laser intensity value corresponding to a potential
detected during said first potential detecting step as closest to said predetermined set
potential.

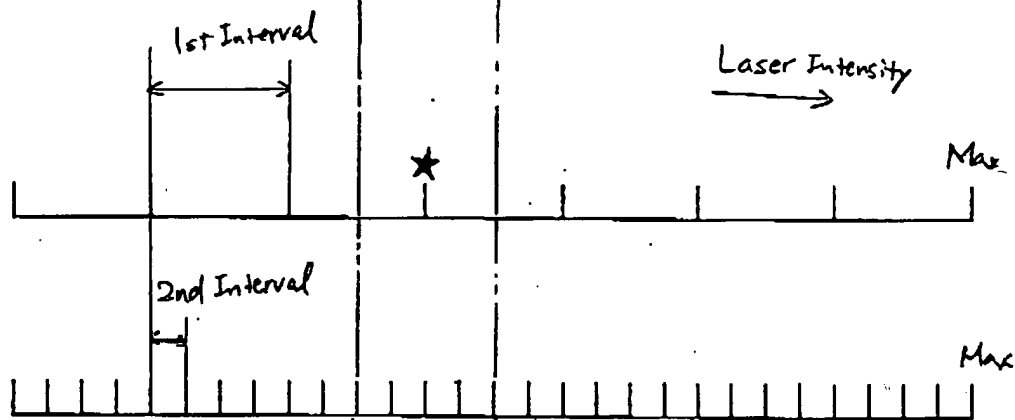
U.S. PATENT APPLICATION NO. 09/280,518

Revised

< Arevalo >



< Applicant's Invention >



Second potential detecting step is repeated with this range.

Explanatory Drawing for Interview only...